

**FIG. 1**

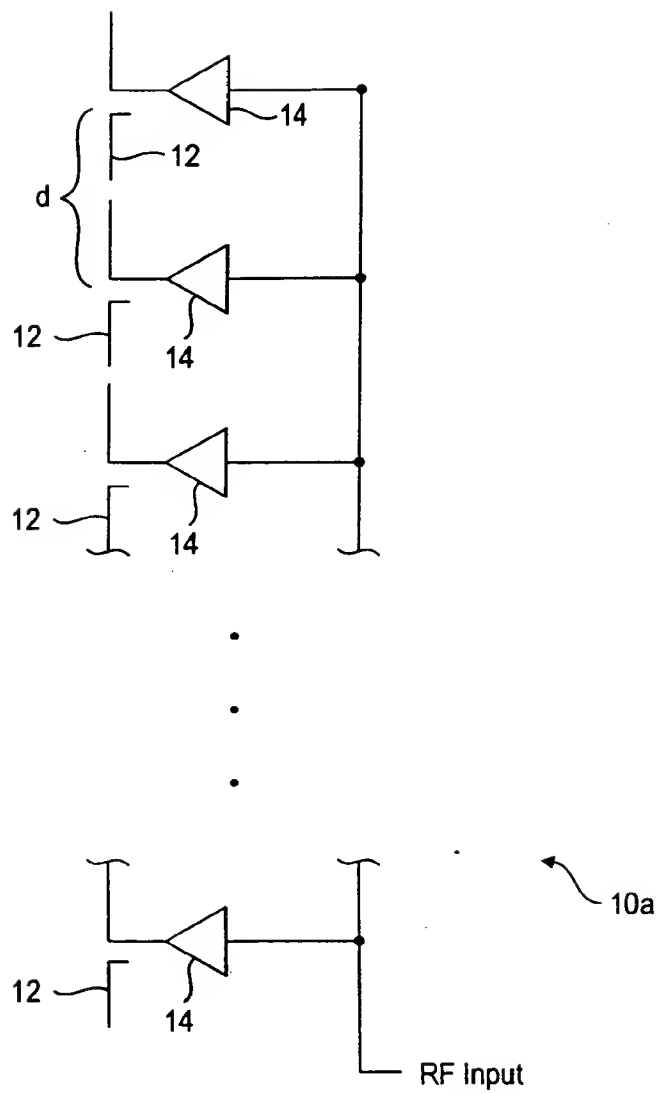
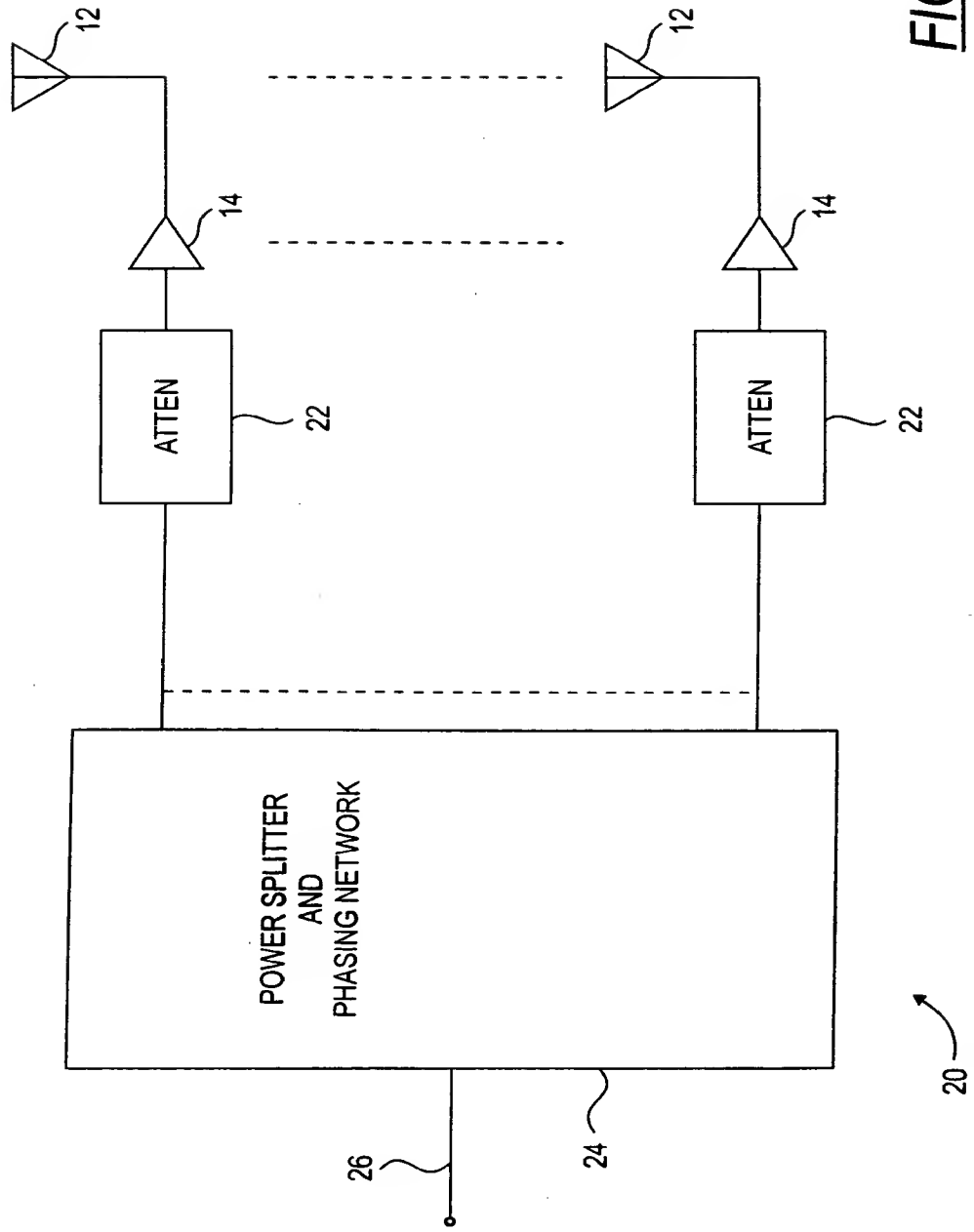


FIG. 2

FIG. 3 is a block diagram of a power splitter and phasing network 20. The network 20 includes a power splitter and phasing network 24, two attenuators 22, two amplifiers 14, and two antennas 12. The network 20 is connected to a ground 26. The network 20 is configured to split the input power into two equal parts, each part being amplified and then transmitted by an antenna 12.



**FIG. 3**

FIG. 4 is a block diagram of a system 40 for providing a DC bias to an antenna 20. The system 40 includes a DC supply 48, a DC bias tee 52, a DC bias tee 44, and a tower/support structure 42. The DC supply 48 is connected to the DC bias tee 52. The DC bias tee 52 is connected to the DC bias tee 44 via a line 46. The DC bias tee 44 is connected to the antenna 20 via a line 44. The antenna 20 is connected to the tower/support structure 42 via a line 42. The tower/support structure 42 is connected to the antenna 20 via a line 42. The antenna 20 is connected to the tower/support structure 42 via a line 42. The antenna 20 is connected to the tower/support structure 42 via a line 42.

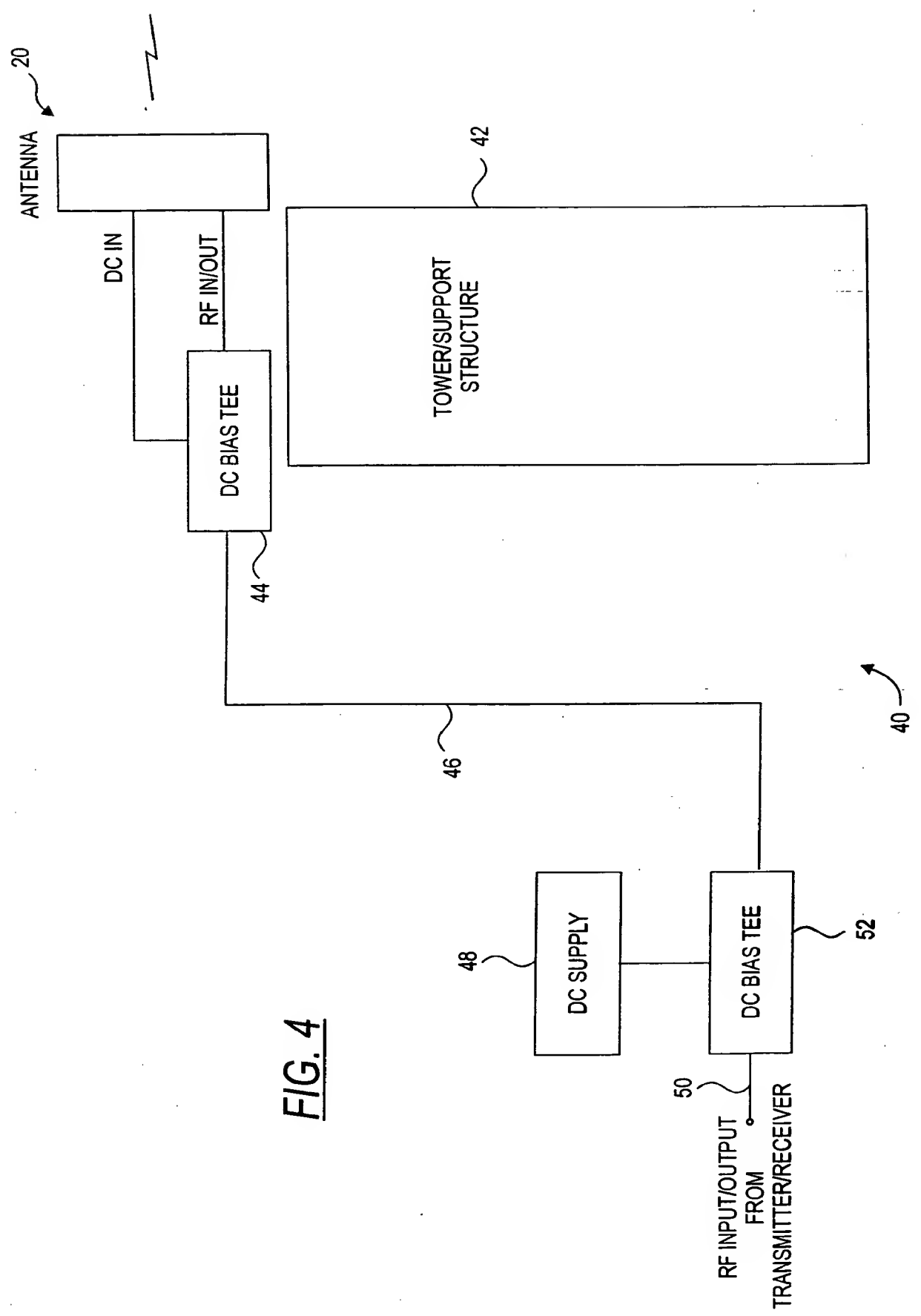


FIG. 4

FIG. 5 is a block diagram of a radio frequency (RF) system. The system includes an antenna 20, a DC supply 48, an RF transceiver 62, a tower/support structure 42, and an RF transceiver 60. The antenna 20 is connected to the RF transceiver 62 via an RF IN line. The DC supply 48 provides DC IN power to the RF transceiver 62. The RF transceiver 62 is connected to the tower/support structure 42. The RF transceiver 60 is connected to the tower/support structure 42 via an RF INPUT FROM TRANSMITTER line. The RF transceiver 60 is also connected to the RF transceiver 62 via a line 46.

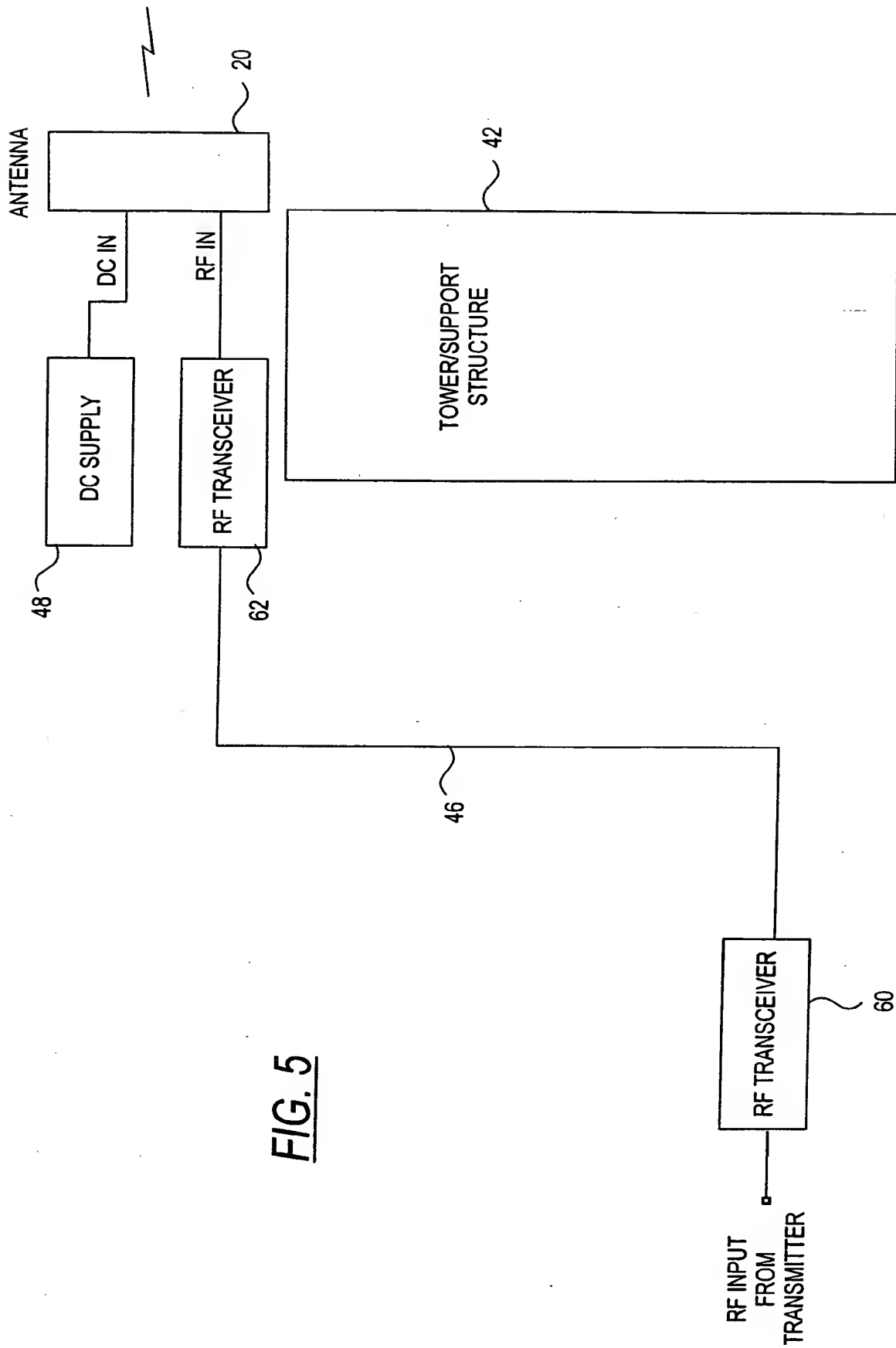


FIG. 5

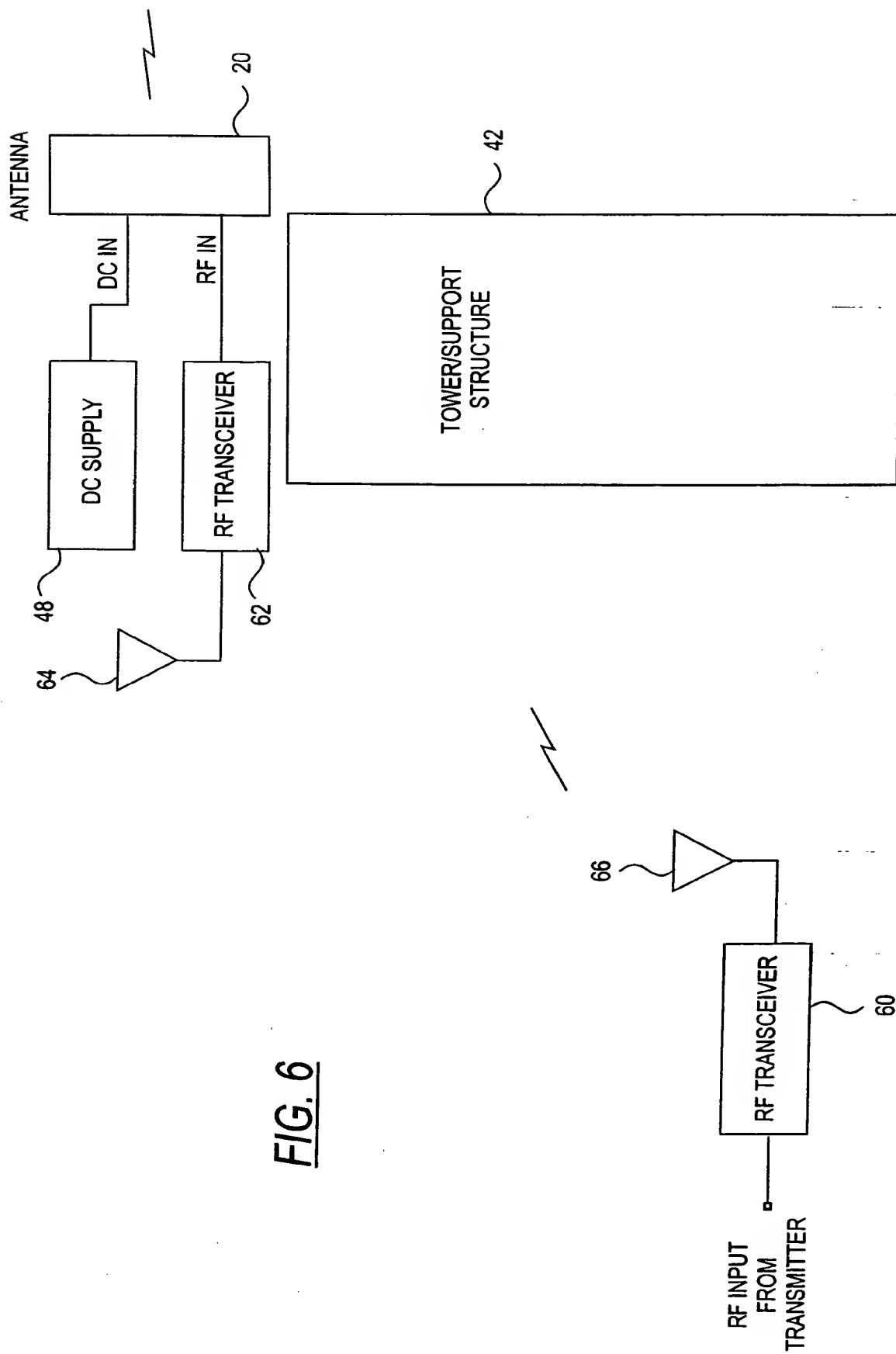


FIG. 7 is a block diagram of a system for providing a DC bias to an antenna. The system includes a DC supply 48, a DC bias tee 72, an RF coaxial cable 74, a DC bias tee 70, and an antenna 20. The DC supply 48 is connected to the DC bias tee 72. The RF input/output from a transmitter is connected to the DC bias tee 72. The DC bias tee 72 is connected to the RF coaxial cable 74. The RF coaxial cable 74 is connected to the DC bias tee 70. The DC bias tee 70 is connected to the antenna 20. The antenna 20 is connected to a DC input (DC IN) and an RF input (RF IN).

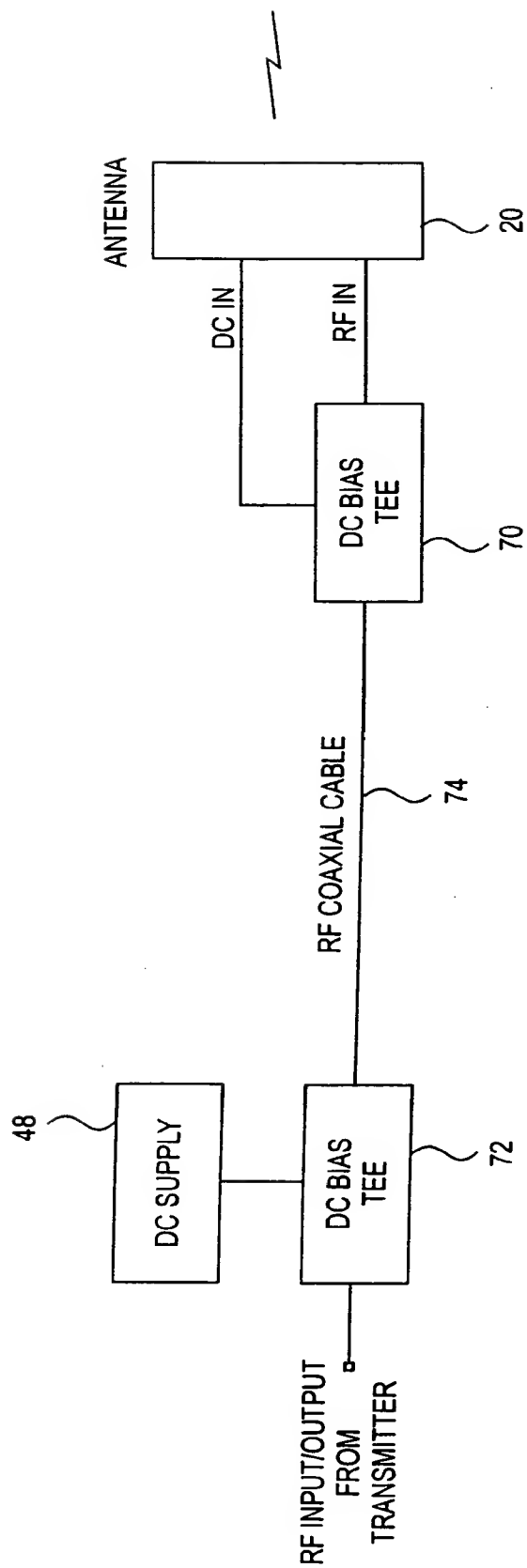


FIG. 7

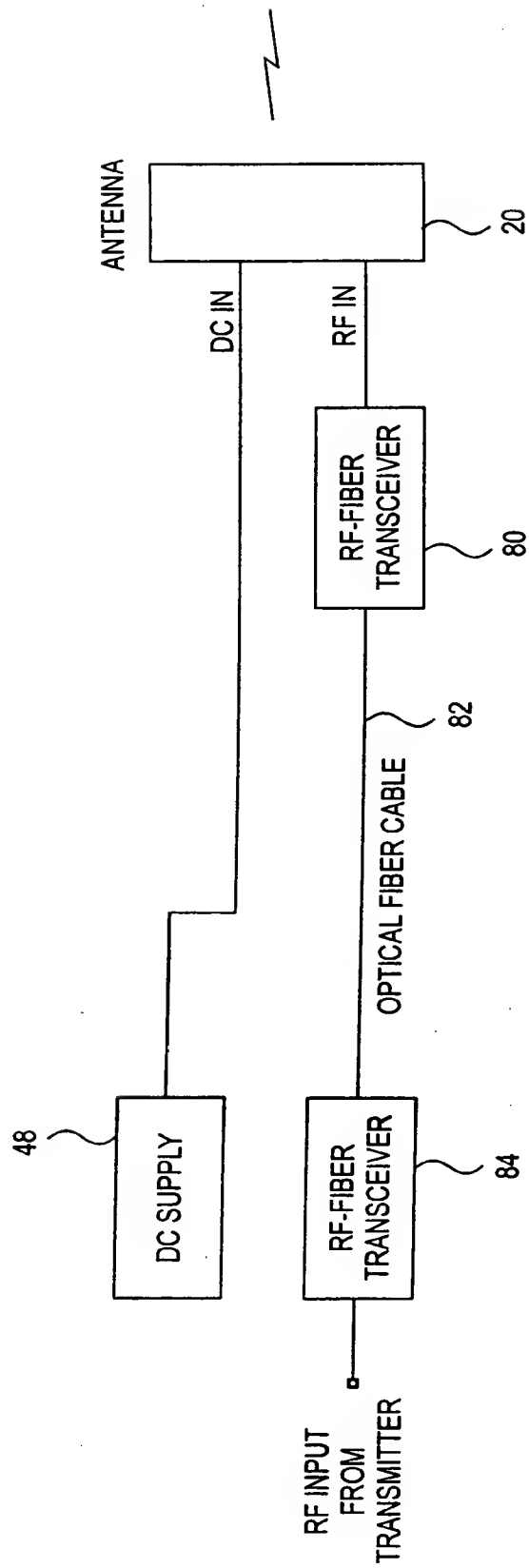


FIG. 8

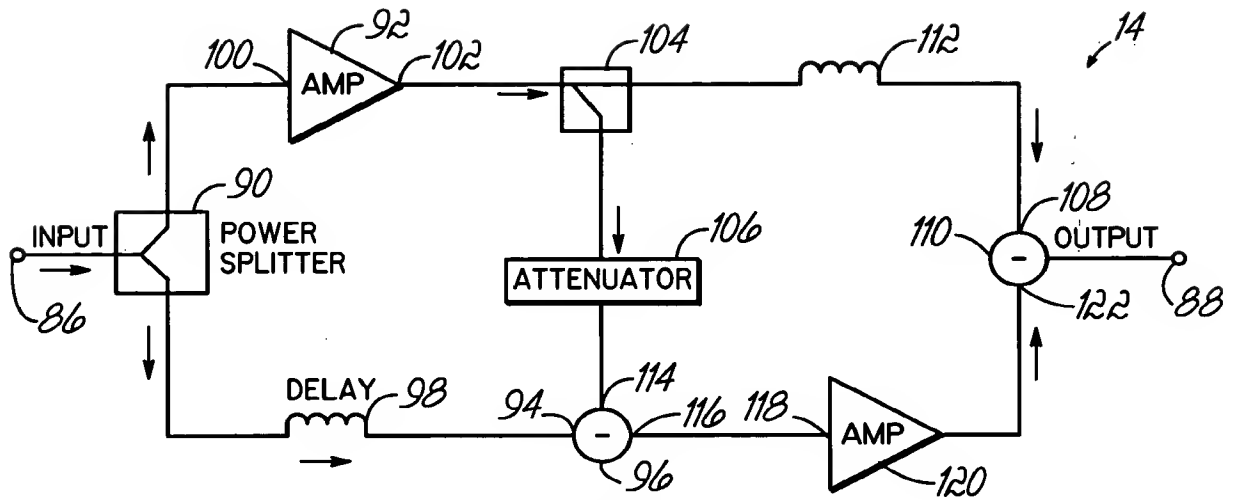


FIG. 9